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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/683,782	10/10/2003	Shin-Ae Lee	5649-1187	1793
20792	7590 03/14/2005		EXAMINER	
MYERS BIGEL SIBLEY & SAJOVEC			CHEN, JACK S J	
PO BOX 3742 RALEIGH, N	-		ART UNIT	PAPER NUMBER
			2813	

DATE MAILED: 03/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	—(,			
Office Addison Communication	10/683,782	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jack Chen	2813				
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet t	with the correspondence address	S			
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN! - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (3 - If NO period for reply is specified above, the maximum st - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, however, may a nunication. i0) days, a reply within the statutory minimum of the atutory period will apply and will expire SIX (6) MC will, by statute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this commun ABANDONED (35 U.S.C. § 133).	ication.			
Status						
1) Responsive to communication(s) file	ed on					
2a) This action is FINAL.	2b)⊠ This action is non-final.					
3) Since this application is in condition)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practi	ce under <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-53 is/are pending in the a	application.					
4a) Of the above claim(s) is/a	re withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-53</u> are subject to restricti	on and/or election requirement.					
Application Papers						
9) The specification is objected to by th						
,	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any obje			404(-1)			
Replacement drawing sheet(s) including 11) The oath or declaration is objected to						
The ball of declaration is objected to	o by the Examiner. Note the attach	ed Office Action of John 1 10-13	JŁ.			
Priority under 35 U.S.C. § 119						
2. Certified copies of the priority	documents have been received.	Application No	e			
	onal Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action	on for a list of the certified copies no	ot received.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) 🔲 Interview	v Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (F		o(s)/Mail Date f Informal Patent Application (PTO-152)				
Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date	6) Other:	•	•			

Application/Control Number: 10/683,782 Page 2

Art Unit: 2813

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 23-53, drawn to a method for forming a semiconductor device, classified in class 438, subclass 585.

II. Claims 1-22, drawn to semiconductor device, classified in class 257, subclass 288+.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, such as instead of implanting impurity into the gate pattern (Re claim 49); one can use solid source diffusion.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/683,782

Art Unit: 2813

Should Applicant elected the invention of Group I, then one of the following species must be elected:

5. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I (fig. 8) drawn to a method for forming a semiconductor device according to first embodiment

Species II (fig. 9) drawn to a method for forming a semiconductor device according to second embodiment

Species III (fig. 10) drawn to a method for forming a semiconductor device according to third embodiment

Species IV (figs. 11, 12A, 13A, 14A and 15-20) drawn to a method for forming a semiconductor device according to fourth embodiment

Species V (figs. 11, 12B, 13B, 14B and 15-20) drawn to a method for forming a semiconductor device according to fifth embodiment

Species VI (figs. 11, 12C, 13C, 14C and 15-20) drawn to a method for forming a semiconductor device according to sixth embodiment

Species VII (figs. 21A, 22-24) drawn to a method for forming a semiconductor device according to seventh embodiment

Species VIII (figs. 21B, 22-24) drawn to a method for forming a semiconductor device according to eight embodiment

Species IX (figs. 21C, 22-24) drawn to a method for forming a semiconductor device according to ninth embodiment

Application/Control Number: 10/683,782

Art Unit: 2813

Species X (figs. 25, 26A, 27A and 28-29) drawn to a method for forming a semiconductor device according to tenth embodiment

Species XI (figs. 25, 26B, 27B and 28-29) drawn to a method for forming a semiconductor device according to eleventh embodiment

Species XII (figs. 25, 26C, 27C and 28-29) drawn to a method for forming a semiconductor device according to twelfth embodiment

Should Applicant elected the invention of Group II, then one of the following species must be elected:

Species I (fig. 8) drawn to a semiconductor device according to first embodiment

Species II (fig. 9) drawn to a semiconductor device according to second embodiment

Species III (fig. 10) drawn to a semiconductor device according to third embodiment

Species IV (fig. 20) drawn to a semiconductor device according to fourth embodiment

Species V (fig. 24) drawn to a semiconductor device according to fifth embodiment

Species VI (fig. 29) drawn to a semiconductor device according to sixth embodiment

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic to the invention of Group I and no claim is generic to the invention of Group II..

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Chen whose telephone number is (571)272-1689. The examiner can normally be reached on Monday-Friday (9:00am-6:30pm) alternate Monday off.

Application/Control Number: 10/683,782 Page 6

Art Unit: 2813

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead can be reached on (571)272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jack Chen

Primary Examiner Art Unit 2813

March 8, 2005